

# Comparisons of Job Characteristics

**Focus Occupation:** [Electrical and Electronic Engineering Technicians \(17-3023\)](#)

**Associated Occupation:** [Control and Valve Installers and Repairers, Except Mechanical Door \(49-9012\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 67

**Focus Occupation:** Electrical and Electronic Engineering Technicians (17-3023)

**Associated Occupation:** Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	13.0	11.6	<	Expanded education and/or training may be required
Public Safety and Security	6.9	11.1	4.7	<<	Extensive education and/or training may be required
Transportation	4.6	8.0	3.7	<<	Extensive education and/or training may be required
Design	5.2	7.4	10.2	>>	Current knowledge level is likely more than sufficient
Physics	4.3	7.0	6.3	<	Expanded education and/or training may be required
Telecommunications	3.9	5.8	8.4	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 75

**Focus Occupation:** Electrical and Electronic Engineering Technicians (17-3023)

**Associated Occupation:** Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	9.6	9.4	0	Current skill level may be sufficient
Equipment Maintenance	3.5	8.4	7.9	0	Current skill level may be sufficient
Operation and Control	5.4	8.3	6.8	<	A higher skill level may be required
Quality Control Analysis	5.9	8.3	8.8	0	Current skill level may be sufficient
Repairing	3.4	8.1	8.0	0	Current skill level may be sufficient

Troubleshooting	4.5	7.9	8.8	>	Skill level is likely sufficient
Equipment Selection	3.3	6.2	7.0	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 74			
Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)					
Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	10.8	12.2	>	Current ability level is likely sufficient
Near Vision	11.1	10.6	11.6	0	Current ability level may be sufficient
Oral Expression	12.4	10.6	11.6	0	Current ability level may be sufficient
Extent Flexibility	4.8	10.1	1.1	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	9.8	12.0	>	Current ability level is likely sufficient
Arm-Hand Steadiness	6.8	9.7	8.8	<	Some improvement in abilities may be required
Information Ordering	9.9	9.6	11.0	>	Current ability level is likely sufficient
Multilimb Coordination	6.0	9.4	5.2	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	9.2	8.4	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	6.8	1.0	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.1	1.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 71
<b>Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)</b> <b>Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)</b>		
Work Activities	Exclusivity of Activity	
Analyze test data	64	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/connect electrical equipment to power circuit	57	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Set up and operate variety of machine tools	62	

Solder electrical or electronic connections or components	55
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 78

**Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)**

**Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)**

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Holding and clamping tools	3
Industry specific software	1
Light and wave generating and measuring equipment	4
Machine tools	7
Power tools	2
Soldering and brazing and welding machinery and supplies	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.